

**WHAT IS CLAIMED IS:**

1. A vibrating switch comprising:
  - an isolating housing,
  - a spring on the isolating housing, one end of the spring being a free end
  - 5 and another end thereof being a fixing end,
  - a conductive plate in the isolating housing corresponding to the free end of the spring and having a gap to the free end;
  - a metal support plate in the isolating housing and being at another side of the conductive plate for supporting the fixing end of the spring so that
  - 10 the spring is not supported in the lower end; and
  - a first and a second pins; the first pin being connected to the conductive plate and extending out of the isolating housing; and the second pin connected to the metal support plate and extending out of the isolating housing;
- 15 wherein when the isolating housing vibrates, the free end of the spring will swing to contact the conductive plate so as to conduct current to the conductive plate.
2. The vibrating switch as claimed in claim 1, wherein the isolating housing is formed by a casing and a bottom plate.
- 20 3. The vibrating switch as claimed in claim 1, wherein the first and second pins are at the same inner sides of the isolating housing.
4. The vibrating switch as claimed in claim 1, wherein the first and second pins are at the opposite inner sides of the isolating housing.
- 25 5. The vibrating switch as claimed in claim 1, wherein coils at the free end are denser than other area of the spring.
6. The vibrating switch as claimed in claim 1, wherein the first pin integrally formed with the conductive plate and the second pin is integrally formed with the metal support plate.
7. A vibrating switch comprising:
  - 30 an isolating housing,
  - a spring on the isolating housing, one end of the spring being a free end

and another end thereof being a fixing end, a pin extending from the fixing end and passing out of the isolating housing;

a conductive plate in the isolating housing corresponding to the free end of the spring and having a gap to the free end; a second pin extending from the conductive plate and passing out of the isolating housing;

a support plate in the isolating housing and being at another side of the conductive plate for supporting the fixing end of the spring so that the spring is not supported in the lower end; and

wherein when the isolating housing vibrates, the free end of the spring will swing to contact the conductive plate so as to conduct current to the conductive plate.

8. The vibrating switch as claimed in claim 7, wherein the isolating housing is formed by a casing and a bottom plate.

9. The vibrating switch as claimed in claim 7, wherein the first and second pins are at the same inner sides of the isolating housing.

10. The vibrating switch as claimed in claim 7, wherein the first and second pins are at the opposite inner sides of the isolating housing.

11. The vibrating switch as claimed in claim 7, wherein coils at the free end are denser than other area of the spring.